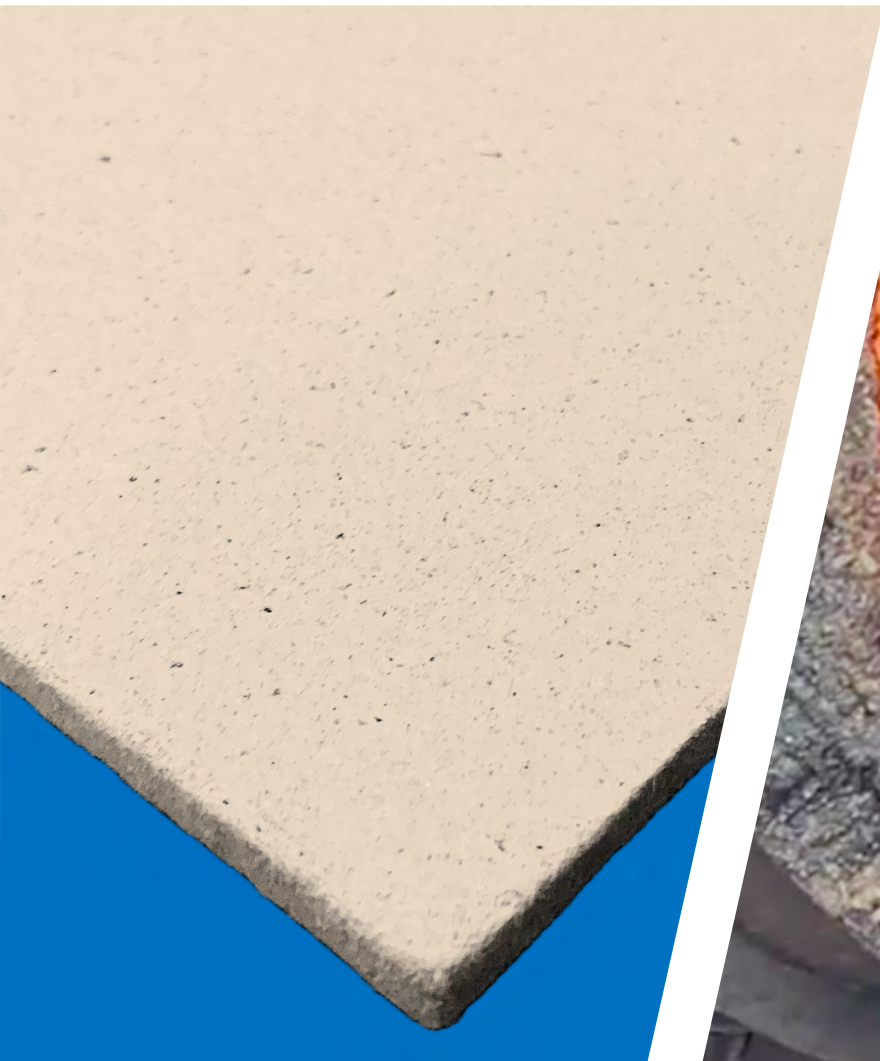


Wedge

Refractory Insulation Millboard

- High Performance Insulation
- High Temperature Resistance
- Asbestos-free, Thin & High Strength
- High Fire Resistant & Heat Shield
- High Electrical Insulation Resistance



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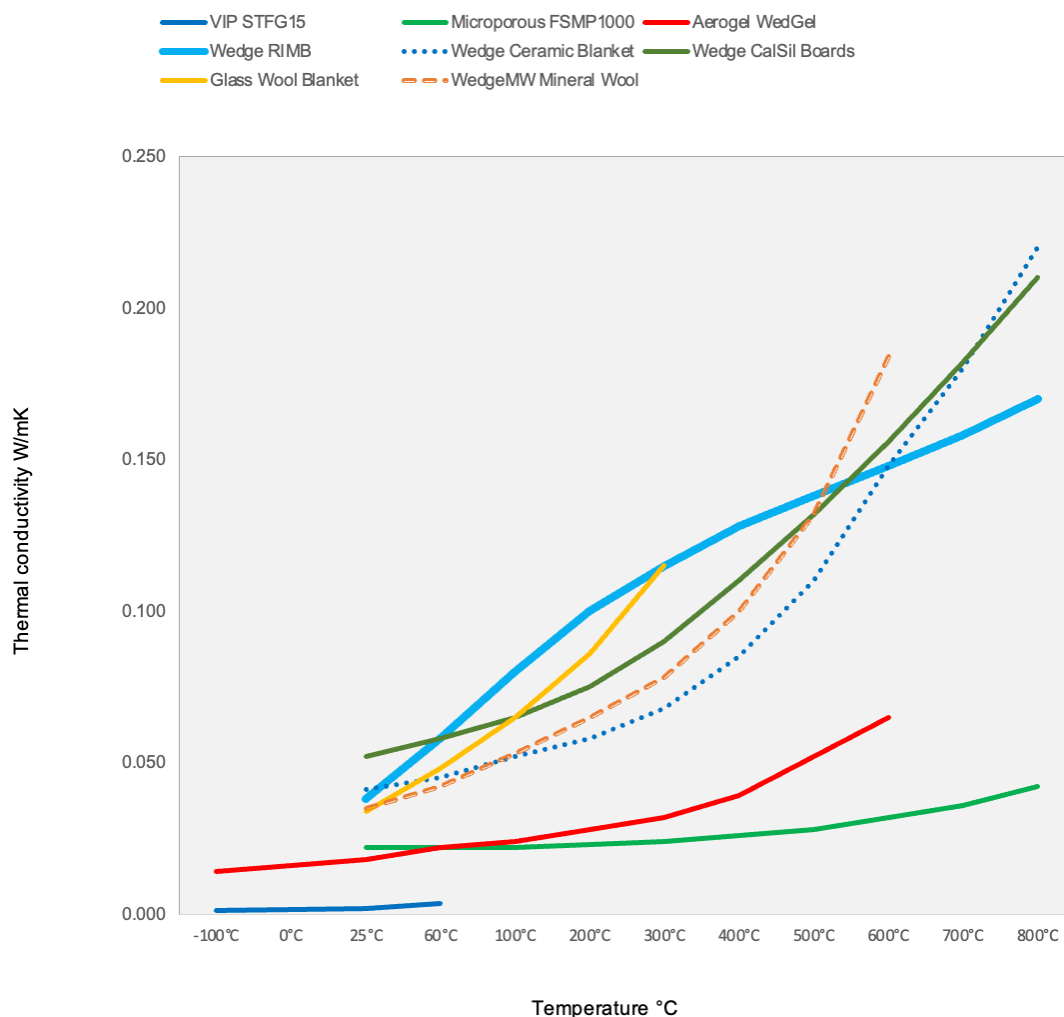
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Wedge RIMB | High Temperature Insulation Millboard

Wedge RIMB Millboards are high-performance, asbestos-free refractory insulation sheets made from wollastonite, calcium silicate, mineral fibres, and high-temperature clays. They are designed for continuous use in high-temperature industrial applications and are widely used for gaskets, seals, furnace insulation, fire protection, and expansion joints.

Thermal Conductivity Comparison

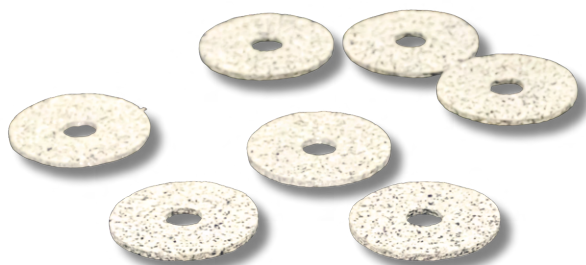


Key Features

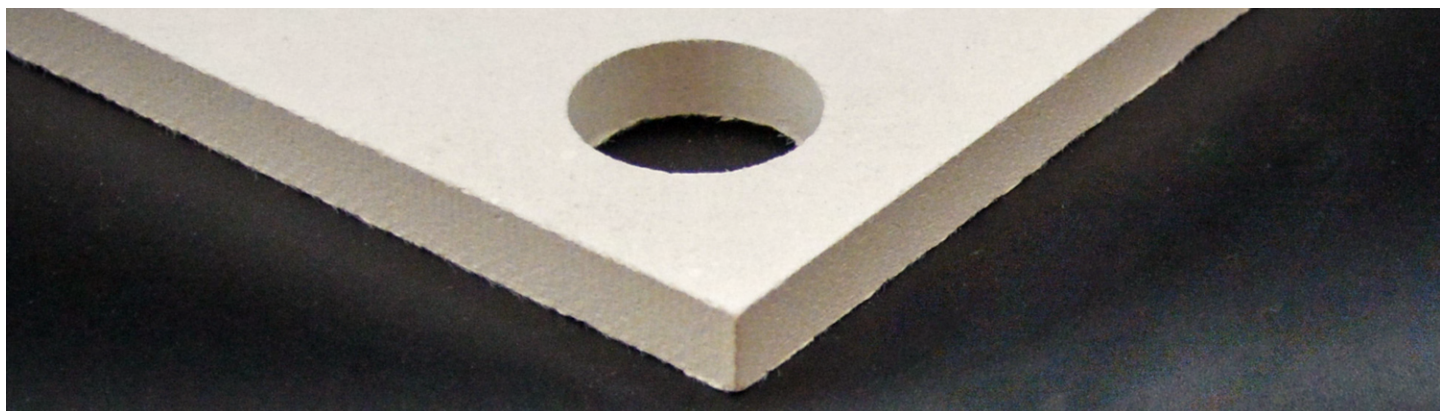
- Temperature Resistance:
 - RIMB 1000 → up to 1000°C
 - RIMB 1100 → up to 1100°C
 - RIMB 1260 → up to 1260°C
 - RIMB 1550 → up to 1500°C
 - RIMB 1650 → up to 1600°C
- High Compressive Strength (up to 12 MPa)
- Very Low Thermal Conductivity
- High Electrical Insulation Resistance
- Excellent Fire Protection & Heat Shield Performance
- Easy to Cut, Punch & Machine
- Asbestos-free and safe for all industrial uses
- Can be moulded wet for pipe insulation

Applications

- Furnace & boiler insulation
- High-temperature gaskets & seals
- Tundish & ladle insulation
- Kiln & cement plant insulation
- Expansion joint packing
- Burner & oven insulation
- High-temperature pipe insulation
- Fire-door insulation sheets
- Electrical appliance insulation
- Glass industry (rollers, washers)
- Metal casting gaskets
- Fire safes, fire doors, lifts, cupboards

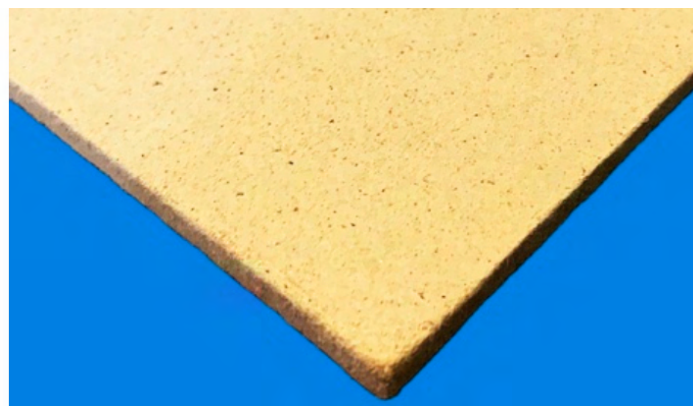
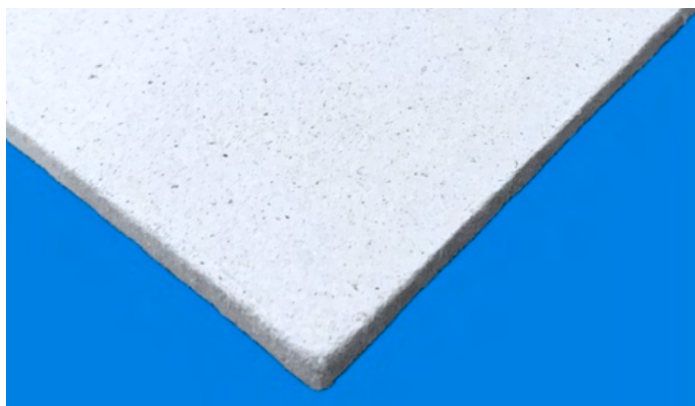


Wedge RIMB - W Grade | Technical Data Sheet



Properties	RIMB 1000W	RIMB 1250W	RIMB 1500W
Classification Temperature, °C	1000	1250	1500
Short Term Maximum Temperature, °C	1400	1600	1800
Base Materials	Wollastonite, Calcium/Magnesium Silicate, and High-temperature clays		
Density, Kg/M3	1100-1150	1000-1100	900-980
Thermal conductivity, W/m.K			
20 °C	0.11	0.12	0.12
200 °C	0.12	0.13	0.13
400 °C	0.13	0.14	0.14
600 °C	0.14	0.15	0.15
800 °C	0.15	0.17	0.18
1000 °C	0.18	0.2	0.21
Electrcial Resistance, $\Omega \times 10^9 / \text{cm}^2$	7.9	4.2	2.4
Tensile Strenght, Mpa	5	5	5
Flexural Strength, Mpa	7	6	6
Shrinkage % @ 1000 °C	1.6	1	<1
Compression Strength, MPa	8	12	12
Loss on Ignition %	11	8	5
Compressibility ASTM F36 K (70 kg/cm ²)	15	10	10
Recovery	40	50	60

Wedge RIMB | Technical Data Sheet



Properties	RIMB 850	RIMB 1000	RIMB 1200
Classification Temperature, °C	850	1000	1200
Short Term Maximum Temperature, °C	1200	1400	1600
Base Materials	Ceramic Fiber, Alumino-Silicate, and Mineral Wool Fiber		
Density, Kg/M3	1000	1000-1100	1100
Thermal conductivity, W/m.K			
20 °C	0.12	0.12	0.18
200 °C	0.13	0.14	0.22
400 °C	0.14	0.16	0.24
600 °C	0.15	0.18	0.26
800 °C	NA	0.21	0.28
1000 °C	NA	NA	0.31
Electrcial Resistance, $\Omega \times 109 / \text{cm}^2$	NA	NA	NA
Tensile Strenght, Mpa	3.5	4	4
Flexural Strength, Mpa	4	4	5
Shrinkage % @ 1000 °C	2.5	2	1.6
Compression Strength, MPa	6	10	14
Loss on Ignition %	20	15	12
Compressibility ASTM F36 K (70 kg/cm ²)	30	15	15
Recovery	20	30	40

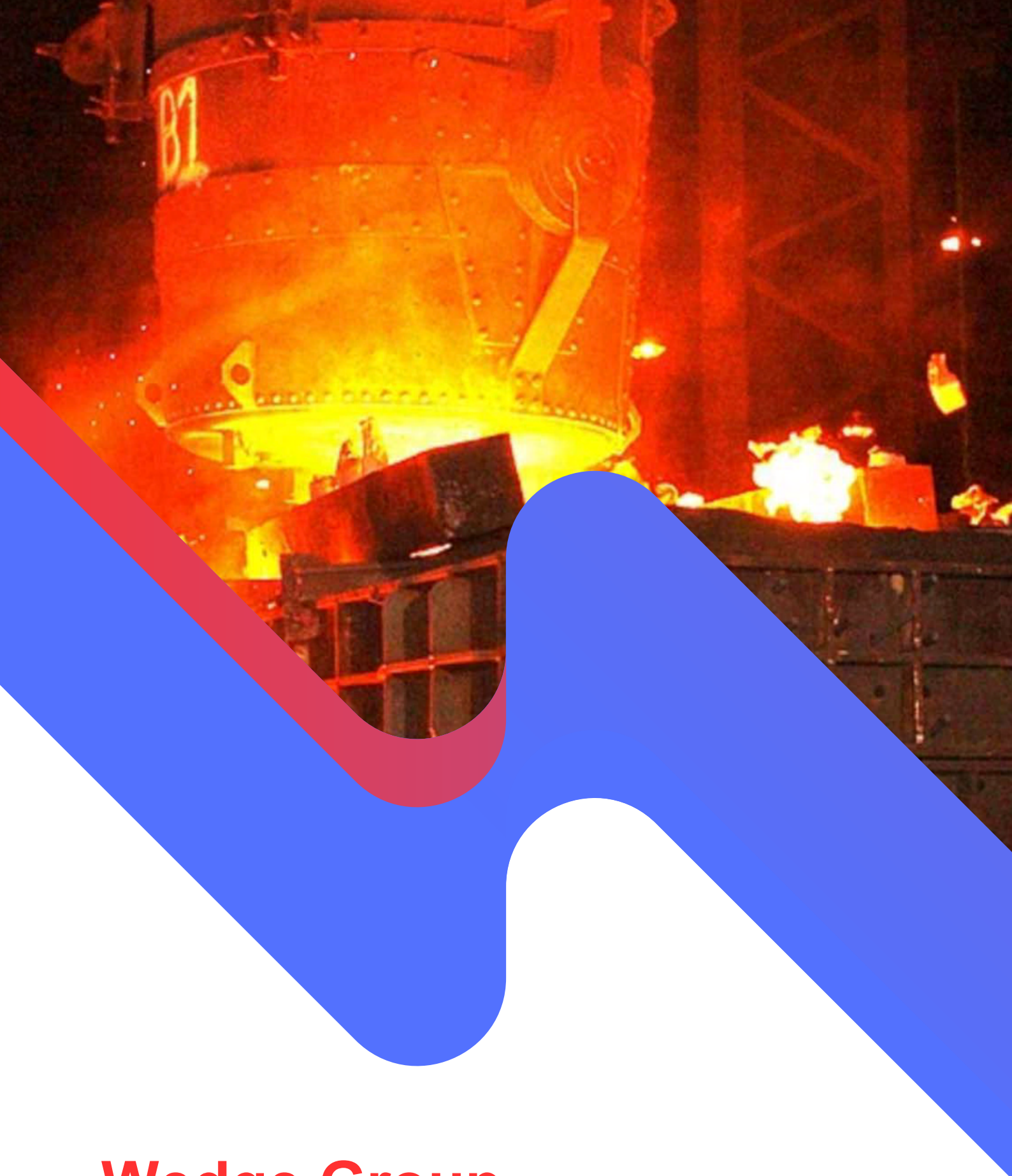
Wedge MagSil | Vermiculite Mill Boards

WedgeVC Vermiculite boards are valued for their exceptional thermal and fire-resistant properties, making them ideal for various applications. Wedge Fire-resistant vermiculite boards are specifically designed to withstand high temperatures and provide effective fire protection. These boards are made by compressing expanded vermiculite particles with a special binder that enhances their ability to resist fire and heat. Here are some key characteristics and uses of fire-resistant vermiculite boards:

- **High temperature resistance** Fire-resistant vermiculite boards are capable of withstanding temperatures up to 1200°C or even higher, depending on the specific formulation and manufacturing process.
- **Fireproofing** Fire Rating 60 minutes to 240 Minutes depending on thickness of the boards and system. These boards are used in applications where fire protection is critical, such as lining fireplaces, wood stoves, chimneys, and other high-temperature environments. They act as a barrier, preventing the spread of flames and heat to surrounding structures.
- **Insulation** In addition to their fire-resistant properties, vermiculite boards also provide thermal insulation, helping to retain heat and improve energy efficiency in heating appliances.
- **Structural support** Fire-resistant vermiculite boards can serve as a structural component in fireproofing systems, providing support and stability to the overall construction.
- **Lightweight** Despite their high temperature resistance, vermiculite boards remain lightweight, which facilitates handling and installation.
- **Chemical stability** Like other vermiculite-based materials, fire-resistant vermiculite boards are chemically stable and resistant to corrosion, ensuring long-term durability in various environments.
- **Versatility** Fire-resistant vermiculite boards come in various sizes and thicknesses, allowing for customization to fit different applications and construction requirements.

Fire-resistant vermiculite boards are essential components in fireproofing systems, offering reliable protection against high temperatures and helping to ensure the safety of buildings and occupants.

Item Details & Test Standards	WedgeMagSil
Short term Temperature Resistance °C	1400
Long term Temperature Resistance °C	800
Resistance to freezing °C	- 20
Density, kg/m ³ , BS EN 12467 -2012, ASTM C 1186, minimum	1050
Fire Rating, Minutes	240
Reaction to fire, Non Combustibility BS 476 Part4, EN13501-1	A1
Acoustic Sound Insulation, DB	43
Impact Shock Resistance ASTM D5328, kJ/m ²	6
Compressive strength, Mpa	18
Bending strength dry, ASTM C 1185/ISO 8335, Mpa, EN12467:2012 +A1:2016	16
Bending strength wet, Mpa	13
Screw Pull out Strength, N	1480
Direct Screw Withdrawal, ASTM D1037-12, N	1000
Moisture content %	6.50 to 8.9
Frost resistance Freeze Thaw cycles, EN12467:2012+A1:2016	50
Moisture movement, ASTM C1185, EN12467:2012 +A1:2016 %	0.18
Water absorption, ASTM C1185, %	10
Water permeability after 24 hours, water gauge 5 cm	Lack of leakage
Water Vapour Permeability, EN12467:2012+A1:2016	Water vapour resistance value µm: 31
Water Impermeability, EN12467:2012+A1:2016	Passed
Dry Shrinkage, ASTM C 1186-08, maximum %	0.2
Wet expansion ASTM C 1186-08, maximum %	0.1
Thermal conductivity, ASTM C177, EN12667:2001, W/(m.K)	0.186
Thermal Resistance, EN12667:2001, (m ² .K)/W	0.065
Asbestos or formaldehyde	None
Warranty, Years	50
Fire Resistant, EN ISO1182 &1176	A1
Surface burning and smoke, ASTM E 84-12	A
Free chloride content, %	None
Growth of Mold & Mildew ASTM D3273	No Growth
Fiber	5 to 6
Perlite	3 to 4
Chloride content, ASTM C 871 maximum %	0.1
Dimensional Tolerance, EN12467:2012 +A1:2016, Width	±2mm
Dimensional Tolerance, EN12467:2012 +A1:2016, Thickness	±0.2mm
Dimensional Tolerance, EN12467:2012 +A1:2016, Edge Straightness, %	±0.02mm
Dimensional Tolerance, EN12467:2012 +A1:2016, Squareness, mm/m	±0.08mm



Wedge Group

Get Price

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www.wedge-india.com